L 59621-65 : ACCESSION NR: AP5012466 The author thanks M. S. Rabinovich, and I. S. Shpigel', for valuable advice and a useful discussion of the results, V. F. Pis'menko and Ye. N. Sobolev for help with the research, and N. V. Perov together with the group of mechanics headed by V. Pr Solov vey for help in constructing the experimental setup. Original article has: 7 figures and 1 formula ASSOCIATION: None SUBMITTED: 22Apr64 ENCL: SUB CODE: NR REF SOV: 006 OTHER: 001 Card

L 59621-65 ACCESSION NR: AP5012466

plasma sources were electrode injectors with discharge over an organic-glass surface. The vacuum chamber was a glass tube 12 cm in diameter and 220 cm long, evacuated to 5 x 10⁻⁶ -- 10⁻⁵ mm Hg. Several measurement procedures were used to investigate the injection. The main investigation of the plasma configuration leaving the magnetic trap was with the aid of a luminescent probe. The results show that a stable plasma pitch could be produced when the compensating field was equal in amplitude to the longitudinal field (within 5--10 per cent), and the delay between the instant of injection and the start of the growth of the magnetic field was 3--6 µsec. The plasma density obtained thereby was ~ 10¹² cm⁻². The plasma trapped in the magnetic field propagated along the force lines with practically no losses. The plasma diagnostic techniques are described in detail. A plasma pinch 5--6 cm in diameter, insulated from the walls of the vacuum chamber and lasting 80 µsec, was obtained. The maximum plasma density at H= 2--2.5 kOe was 3 x 10¹² cm⁻³. This constitutes some 20 -- 50 percent of the injected particles. The mechanism of capture of the plasma is described qualitatively.

Card 2/3

8/0000/63/000/000/0263/0269

ACCESSION NR: AT4025317

AUTHORS: Batanov, G. M.; Ivanovskiy, M. A.; Fedyanin, O. I.; Shpi-gel', I. S.

TITLE: Use of a luminescent probe to record a moving plasma

SOURCE: Diagnostika plazmy* (Plasma diagnostics); sb. statey. Moscow, Gosatomizdat, 1963, 263-269

TOPIC TAGS: plasma, plasma diagnostics, luminescent probe, plasma scope, moving plasma configuration, plasma electron image, plasma ion image, plasma configuration

ABSTRACT: The luminescent probe ("plasmoscope") method developed by L. I. Yelizarov and A. V. Zharinov and reported by them at the Nuclear Fusion Conference in Salzburg (4--9 September 1961) is used to study the transverse motion of a plasma jet in a magnetic field in the presence of translational velocity perpendicular to the sur-

Card 1/4 V

ACCESSION NR: AT4025317

face of the screen. The results are compared with data obtained by local density measurements. The characteristics of the apparatus and of the plasma are described. It is concluded that at a plasma density ~10¹¹ cm⁻³ and a translational beam velocity ~10⁷ cm/sec the luminescent probe yields correct information on the plasma configuration in a longitudinal magnetic field. Reflection of the plasma from the screen surface does not distort the results, and there is no luminor persistence. The density of the measured plasma is not confined to the condition that the grid cell dimension be smaller than the Debye radius. To obtain a sharp image it is merely necessary that the pulse on the grid be of sufficient magnitude. If the screen is not illuminated by the plasma radiation, it is possible to obtain an ion image without using electron secondary emission. Orig. art. has: 6 figures.

ASSOCIATION: None

Card 2/4

"APPROVED FOR RELEASE: Monday, July 31, 2000

CIA-RDP86-00513R000412810

ACC NR

APG036032

SOURCE CODE: UR/0057/66/036/011/1990/1994

AUTHOR: Zykov, V.M.; Fedyanin, O.I.

ORG: Physics Institute im. P.N.Lebedev, Moscow (Pizicheskiy institut im. P.N. Lebedeva)

TITLE: An electrical method for cutting off a plasma stream

SOURCE: Zhurnal tekhnicheskoy fiziki, v. 36, no. 11, 1966, 1990-1994

TOPIC TAGS: moving plasma, plasma control, electric field, magnetic field, valve

ABSTRACT: The authors have employed the apparatus diagrammed in the figure to test the operation of an electrostatic plasma gate consisting of a number of 0.12 mm thick 20 mm long stainless steel plates mounted parallel on; a 2 mm spacing with alternate plates oppositely charged. The gate is intended for use in a plasma purification system. In the figure, 1 is a spark plasma source of the type described by W.H. Bostick (Phys. Rev., 106, 1957), which produced plasmas with densities up 10¹² cm⁻³; 2 is a 12 cm diameter glass vacuum chamber; 3 is a diaphragm mounted 20 cm from the plasma source and having a 3 cm diameter opening; 4 is a solenoid producing a quasi-steady magnetic field of up to 3 kOe; 5 is the gate under test; and 6 is a 4 cm diameter shielded electric probe for measuring the plasma passing through the gate. When no voltage was applied to the gate its transparency increased with increasing

Cord 1/2

UDC: 533.9

ACC NR. AP6036032

strength of the longitudinal magnetic field; in a 2 kOe field the transparency of the gate was 0.85, which is close to the geometric value. When a potential of 100 V was applied to the gate its transparency to a plasma with a maximum density of 1011 cm⁻³ was 0.04, and at a potential of 200 V its transparency to a 10¹² cm⁻³ plasma was 0.01. The gate was also tested

with 100 V square pulses, and it was found to be possible to cut off a selected portion of the plasma burst. It is suggested that the operation of the gate involves separation of the plasma into electron and ion components in the strong electric field. A correct theoretical discussion of the results will require a rigorous treatment of the diffusion of plasma in crossed fields. The authors thank I.S.Shpigel for valuable discussions, and Yu.V.Khol'nov and P.V.Perov for assistance with the experiments. Orig. art. has: 2 formulas and 6 figures.

SUB CODE: 20 SUBM DATE: OSNOv65 ORIG.REF: 007 OTH REF: 002

Card 2/2

	ACC NRI AT6033031 SOURCE CODE: UR/2504/6. 132/000/0007/0019	1
,'N	AUTHOR: Batanov, G. M.; Grebenshchikov, S. Ye.; Ivanovskiy, M. A.; Sbitnikova, I. S.; Fedyanin, O. I.; Shpigel', I. S.	
	TITIE: Injection of a plasma into a closed magnetic trap with a two phase helical	•
•	[ffeld	
•	SOURCE: AN SSSR. Fizicheskiy institut. Trudy, v. 32, 1966. Fizika plazny (Plasma physics), 7-19	j S
	TOPIC TAGS: plasma injection, magnetic trap, helical magnetic field	
	ABSTRACT: A plasma injected into a closed magnetic trap must have the following properties: 1) it must be sufficiently homogeneous in composition (hydrogen or deuterium), it must contain a minimum number of impurities, and the percent ionization must be close to 100; 2) its temperature must be high enough to exclude loses due to normal diffusion in the magnetic field; 3) it must have a high conductivity to normal diffusion in the magnetic field; 3) it must have a high conductivity to	· ·
	normal diffusion in the magnetic field; 3) it must have a right of the toroidal eliminate polarization due to the toroidal effect; 4) the plasma, filling the toroidal eliminate polarization due to the toroidal effect; 4) the plasma, filling the toroidal trap, must not contain marked longitudinal electric fields. The article presents the trap, must not contain marked longitudinal electric fields. The article presents the trap, must not contain marked longitudinal electric fields. The article presents the trap, must not contain marked longitudinal electric fields. The article presents the trap, must not contain marked longitudinal electric fields. The article presents the trap, must not contain marked longitudinal electric fields. The article presents the trap, must not contain marked longitudinal electric fields. The article presents the trap, must not contain marked longitudinal electric fields. The article presents the trap, must not contain marked longitudinal electric fields. The article presents the trap, must not contain marked longitudinal electric fields. The article presents were results of an investigation of several methods of injection. The experiments were carried out in laboratory scale models. The first method tested was injection of the	-
	Cord 1/2	
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ACC NR: AT6033031

plasma into a "programmed" magnetic field; this method is based on the irreversible change in the configuration of the magnetic field into a determined region of a closed field. The behavior of a plasma was studied under rapid compression by an external azimuthal magnetic field. The method proposed in the article involves injection of the plasma along the tube of the lines of force of a magnetic field extracted from the volume of the trap. Particular attention is paid to the problem of the movement of a sufficiently dense plasma (n = 10¹²-10¹) cm⁻¹) in a curvilinear magnetic channel. The article concludes with a consideration of the collision of plasma flows in the transverse magnetic field of the trap. "In conclusion the authors consider it their duty to thank M. S. Rabinovich for his continuing interest in the progress of the work and for his helpful discussions of the experimental results and of the selection of the basic directions of the investigation. They also thank all their coworkers who took part in setting up the physical equipment and in carrying out the experiments: Ye. P. Aleksandrov, M. S. Bereshetskiy, N. M. Zverev, Yu. G. Krutikov, N. V. Perov, as well as all the workers of the workshop headed by V. P. Solov'yev." Orig. art. has:

SUB CODE: 20/ SUBM DATE: none/ ORIG REF: 015/ OTH REF: 007

Card 2/2 4/10

Fodyania. V.W.

AUTHOR:

Fedyanin, V.K.

56-5-39/46

TITLE:

Radiation Correction in the Dispersion Relations for $\chi^{\pm}_{+} p \rightarrow \pi^{\dagger}_{+} p$ (Radiatsionnyye popravki v dispersionnykh sootnosheniyakh dlya $\pi^{\pm} + \rho \rightarrow \pi^{\pm} + \rho$)

PERIODICAL:

Zhurnal Eksperim. i Teoret.Fiziki, 1957, Vol. 33, Nr 5,

pp. 1301-1303 (USSR)

ABSTRACT:

The determination of the value f2 from the dispersion relations for $\pi^{\pm}+\rho(1)$ and $\pi^{-}+\rho(2)$ -states for energies below the resonance proved to be (1) = 0.08 and (2) = 0.04. The same value of 0.08 for (1) and (2), according to Puppi and Stanghellini,

(ref.1) was computed for energies above resonance.

Now the experiment has been undertaken theoretically to determine

the difference between f^2 (1) and f^2 (2) by taking account successively of the functions for the entire system and the inter-

mediate states in which the nucleon as well as the photon exists. According to this computation the difference between f^2 (1) and

Card 1/2

 f^2 (2) amounts to about 3% for the energy domain (1,5 - 2). μ .

Radiation Correction in the Dispersion Relations for $\chi^{\frac{1}{2}} + \rho \rightarrow \chi^{\frac{1}{2}} + \rho$ There are 5 references, 1 of which is Slavic.

ASSOCIATION: Moscow State University (Moskovskiy gosudarstvennyy universitet)

SUBMITTED: July 3, 1957

AVAILABLE: Library of Congress

Card 2/2

AUTHORS:

Tavkhelidze, A. H., Fedyanin, V. K.

20-119-4-17/60

TITLE:

Approximated Equations for the Amplitude of the Scattering of Photons on Nucleons (Priblizhennyye uravneniya dlya am-

plitudy rasseyaniya fotonov na nuklonakh)

PERIODICAL:

Doklady Akademii Nauk SSSR, 1958, Vol. 119,

Nr 4, pp. 690 - 693 (USSR)

ABSTRACT:

The study of the scattering of photons on nucleons is able to supply important clues as to the mesonic structure of the nucleon. The present work determines approximated equations for the physical amplitudes on the basis of the dispersion relations for Compton scattering. The first chapter deals with the kinematic examination of the amplitude. First, an expression is written down for the amplitude of the process resulting from relativistic invariance. From the conditions of relativistic invariance and gradient invariance it is possible to determine the number of independent structures and to find an explicit expression hereof. In a pseudoscalar meson field the number of independent structures is 10. If the invariance of the amplitude with respect to reflection as regards time is taken into account, this number is reduced to 6. The authors here write

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Approximated Equations for the Amplitude of the Scattering of Photons on Nucleons

20-119-4-17/60

Next, some symmetry properties of the invariant functions are detected. In the second chapter dispersion relations for the relativictic amplitudes Ω_i are derived. This is, however, only an intermediate stage, and in the next chapter the dispersion relations for the physical amplitudes are derived. In the last chapter the unitarity condition is derived. The dispersion relations derived here connect the Hermitian and the anti-Hermitian part of the amplitude of the reaction. The unitarity condition written down in single-meson approximation makes it possible to express the anti-Hermitian part of Compton scattering by the amplitudes of photoproduction. In conclusion, the authors thank N. N. Bogolyubov, Member, Academy of Sciences,

down explicit expressions for these 6 independent structures.

USSR, and A. A. Logunov for their valuable discussions and for the constant interest they displayed in this work. There are 5 references, 3 of which are Soviet.

Card 2/3

"APPROVED FOR RELEASE: Monday, July 31, 2000 CIA-RDP86-00513R000412810

Approximated Equations for the Amplitude of the 20-119-4-17/60

Scattering of Photons on Nucleons

ASSOCIATION: Ob"yedinennyy institut yadernykh issledovaniy (United Institute

of Nuclear Research)

November 20, 1957, by N. N. Bogolyubov, Member, Academy of PRESENTED:

Sciences, USSR

SUBMITTED: November 14, 1957

Card 3/3

FEDYANIN, V.K.

Dispersion relations for the Compton effect on nucleons. Liokl. AN SSSR 140 no.2: 347-350 S '61. (MIRA 14:9)

1. Matematicheskiy institut im. V.A.Steklova AN SSSR. Predstavleno akademikom N.N.Bogolyubovym.
(Compton effect) (Photons)

FEDYANIN, V. K.

Dissertation defended for the degree of <u>Candidate of Physicomathematical</u> <u>Sciences</u> at the Mathematical Institute imeni V. A. Steklova 1962:

"Investigation of the Compton Effect for Nucleons Using Dispersion Ratios."

Vest. Akad. Nauk SSSR. No. 4, Moscow, 1963, pages 119-145

FEDYANIN, V.K.[translator]; KHOZYAINOV, V.T. [translator];
MEDVEDEV, B.V., red.; SHIRKOV, D.V., red.; LIVSHITS,
B.L., red.

[What do physicists think about] Nad chem dumaiut fiziki. Pod red. B.V.Medvedeva i D.V.Shirkova. Moskva, Fizmatgiz. No.1. [Nuclear physics] Fizika atomnogo iadra. 1962. 99 p. Tranlsated from the English. (MIRA 17:6)

S/056/62/042/004/020/037 B108/B102

24.6610

AUTHOR: Fedyani

Fedyanin, V. K.

TITLE:

Compton effect on a proton in dipole approximation

PERIODICAL:

Zhurnal eksperimental noy i teoreticheskoy fiziki,

v. 42, no. 4, 1962, 1038 - 1046

TEXT: On the basis of published data and formulas (M. Gell-Mann, M. L. Goldberger, W. E. Thirring. Phys. Rev., 95, 1612, 1954; R. H. Capps. Phys. Rev., 106, 1031, 1957; R. H. Capps. Phys. Rev., 108, 1032, 1957; F. E. Low. Phys. Rev., 96, 1428, 1954. M. Gell-Mann, M. L. Goldberger. Phys. Rev., 96, 1433, 1954) the author presents a more accurate formulation of the dipole "phase shift" approximation. Comparison of experimental and theoretical data from publications on the energy and angular dependences of the differential cross sections for energies up to 180 Nev as well as the threshold singularities and electric and magnetic "polarizabilities" of the proton shows good agreement in the approximation under consideration. There are 11 figures and 25 references: 9 Soviet, and 16 non-Soviet. The four most recent English-language references read as follows: G. L. Oxley.

Card 1/2

S/056/62/042/004/020/037 B108/B102

Compton effect on ...

Phys. Rev., 110, 733, 1958; L. G. Hyman et al. Phys. Rev. Lett., 3, 93, 1959; M. Jacob, J. Mathews. Phys. Rev., 117, 854, 1960; A. M. Baldin. Nucl. Phys., 18, 310, 1960.

ASSOCIATION: Universitet druzhby narodov (University of the Friendship of the Nations)

SUBMITTED: July 1, 1961 (initially), December 16, 1961 (after revision)

Card 2/2

\$/056/63/044/002/037/065 B108/B186

AUTHOR:

Fedyanin, V. K.

TITLE:

Application of the dispersion relations to the Compton

effect on the proton

PERIODICAL:

Zhurnal eksperimental'noy i teoreticheskoy fiziki, v. 44,

no. 2, 1963, 633-648

TEXT: The Compton effect on the proton is studied by means of the six dispersion relations for a fixed transfer of momentum as calculated in an earlier paper (DAN SSSR, 140, 347, 1961). The unitarity conditions in single-meson approximation (A.N. Tavkhelidze, V.K. Fedyania. Preprint OIYaI 1957 P-125; DAN SSSR, 119, 690, 1958) allow the Imaginary part of the amplitude to be expressed in terms of the coefficients in the angular distribution of production in the photoprocesses $\gamma + p \longrightarrow p + \pi$ (K. Berkelman, I. A. Waggoner. Phys. Rev., 117, 5, 1960) and $\gamma + p \longrightarrow n + \pi^+$ (I.L. Vretsky et al. Phys. Rev. Lett., 12, 1958; M. Heinberg et al. Phys. Rev., 110, 1211, 1958). Employing the six exact (in e²-approximation) dispersion relations makes it possible to take the "recoil" of the Card 1/2

S/056/63/044/002/037/065 B108/3186

Application of the dispersion relations ...

nucleon into consideration (terms in the dispersion integrals being linear with respect to the frequency). This improves the agreement with the experiments in the subthreshold region (ZhETF, 42, 1038, 1962), and also in the superthreshold region as carried out by other investigators (e.g. M. Jacob, I. Matthews. Phys. Rev., 117, 854, 1960). Furthermore, the data on the electric and magnetic polarizabilities of the proton can be improved. The characteristics (phase, angular distribution, etc.) for $\gamma + p \longrightarrow \gamma' + p'$ processes are calculated for energies of between 0 and about 800 Mev. The dispersion relations calculated in the previous paper mentioned above can be used for calculating the Compton effect on the neutron and deuteron. In particular it will be possible to estimate the polarizability of the neutron; for this, however, a preparatory study of the two photoprocesses $\gamma + n \longrightarrow n + \pi$ and $\gamma + n \longrightarrow p + \pi$ will be necessary. There are 12 figures and 4 tables.

ASSOCIATION: Universitet druzhby narodov ("Friendship between Nations"

University)

SUBMITTED: August 6, 1962

Card 2/2

Application of dispersion relations to the Compton effect on protons. Zhur. eksp. i teor. fis. 44 no.2:633-648 F '63. (MIRA 16:7) 1. Universitet drushby narodov.

FEDYANIN, V.K.

A problem in the theory of elasticity. Dokl. AN SSSR 164 no.6:1253-1255 0 16%.

(MIRA 18:10)

1. Fiziko-khimicheskiy institut im. L.Ya.Karpova AN SSER, Moskva.

EWI(d)/EWI(m)/EWP(w) LJP(c) EM ACC NRI AP5027219 切りの20/65/164/006/125まり1255 SOURCE CODE: 44,55 AUTHOR: Fedyanin, V. K. more more and by more Physical-Chemical Institute im. L. Yn. Karpov (Fiziko-khimicheskiy institut) TITLE: On one problem of the theory of elasticity SOURCE: AN SSSR. Doklady, v. 164, no. 6, 1965, 1253-1255 TOPIC TAGS: stress concentration, stress distribution, mechanical stress, Laplace transform, elasticity, elasticity theory ABSTRACT: A presentation on the solution of a certain type of problem from the theory of elasticity is given. The problem is to find a solution of the theory of elasticity equations for a half-space $(Z \ge 0)$ which has, at some point located a distince h away from the boundary surface (Z=0), the characteristic of a type of center (of compres $p_{s}(r,0)=0.$ where p_z - the z - component of pressure as a function of (r,z) in cylindrical coordinates; the z = 0 plane corresponds to the boundary, and the z axis is directed downward and passes through the point (0,h). Component stress tensor boundary condia) $\sigma_{tr}(r,0) = 0$, 6) $\sigma_{tr}(r,0) = 0$. Card 1/3

ACC NR	AP5027219		7
The solut	ion is developed with the use of vectors of the form	<i>\\</i>	
	$u_{s}^{0} = A_{0} \left(\frac{s-h}{R_{1}^{2}} + \frac{s+h}{R_{2}^{2}} \right), u_{r}^{0} = A_{0} r \left(\frac{1}{R_{1}^{0}} + \frac{1}{R_{2}^{2}} \right),$		
where	$R_1^2 = r^2 + (z - h)^2 \cdot R_2^2 - r^2 + t_0 + t_0^2$		
and Ao is infinite m	a constant. Use is made of the solution of the elasticity equ	stions for an	
Brea, 1954	and S. P. Mimoshamba /m at all miles (Mekhanika	Boloshnykh	-
a form ame found to b		is stated in ables are	
	$u_s = A_0 \left[\frac{s-h}{R_1^3} - \left(\frac{s+h}{R_1^3} \frac{\lambda + 3\mu}{\lambda + \mu} + \frac{4s}{R_2^3} - \frac{6sr^4}{R_2^6} \right) \right],$		
	$u_r = A_0 r \left[\frac{1}{R_1^3} + \frac{\lambda + 3\mu}{\lambda + \mu} \frac{1}{R_2^3} - \frac{6z(s+h)}{R_2^6} \right],$		
•	$\sigma_{zz} = 4\mu A_0 \left\{ -\frac{1}{R_1^3} \left(1 - \frac{3}{2} \frac{r^3}{R_1^3} \right) + \frac{1}{R_2^3} \left(1 - \frac{3}{2} \frac{r^3}{R_2^3} \right) + \frac{6z (z+h)}{R_2^3} \left(1 - \frac{5}{2} \frac{r^3}{R_2^3} \right) + \frac{6z (z+h)}{R_2^3} \left(1 - \frac{5}{2} \frac{r^3}{R_2^3} \right) + \frac{6z (z+h)}{R_2^3} \left(1 - \frac{5}{2} \frac{r^3}{R_2^3} \right) + \frac{6z (z+h)}{R_2^3} \left(1 - \frac{5}{2} \frac{r^3}{R_2^3} \right) + \frac{6z (z+h)}{R_2^3} \left(1 - \frac{5}{2} \frac{r^3}{R_2^3} \right) + \frac{6z (z+h)}{R_2^3} \left(1 - \frac{5}{2} \frac{r^3}{R_2^3} \right) + \frac{6z (z+h)}{R_2^3} \left(1 - \frac{5}{2} \frac{r^3}{R_2^3} \right) + \frac{6z (z+h)}{R_2^3} \left(1 - \frac{5}{2} \frac{r^3}{R_2^3} \right) + \frac{6z (z+h)}{R_2^3} \left(1 - \frac{5}{2} \frac{r^3}{R_2^3} \right) + \frac{6z (z+h)}{R_2^3} \left(1 - \frac{5}{2} \frac{r^3}{R_2^3} \right) + \frac{6z (z+h)}{R_2^3} \left(1 - \frac{5}{2} \frac{r^3}{R_2^3} \right) + \frac{6z (z+h)}{R_2^3} \left(1 - \frac{5}{2} \frac{r^3}{R_2^3} \right) + \frac{6z (z+h)}{R_2^3} \left(1 - \frac{5}{2} \frac{r^3}{R_2^3} \right) + \frac{6z (z+h)}{R_2^3} \left(1 - \frac{5}{2} \frac{r^3}{R_2^3} \right) + \frac{6z (z+h)}{R_2^3} \left(1 - \frac{5}{2} \frac{r^3}{R_2^3} \right) + \frac{6z (z+h)}{R_2^3} \left(1 - \frac{5}{2} \frac{r^3}{R_2^3} \right) + \frac{6z (z+h)}{R_2^3} \left(1 - \frac{5}{2} \frac{r^3}{R_2^3} \right) + \frac{6z (z+h)}{R_2^3} \left(1 - \frac{5}{2} \frac{r^3}{R_2^3} \right) + \frac{6z (z+h)}{R_2^3} \left(1 - \frac{5}{2} \frac{r^3}{R_2^3} \right) + \frac{6z (z+h)}{R_2^3} \left(1 - \frac{5}{2} \frac{r^3}{R_2^3} \right) + \frac{6z (z+h)}{R_2^3} \left(1 - \frac{5}{2} \frac{r^3}{R_2^3} \right) + \frac{6z (z+h)}{R_2^3} \left(1 - \frac{5}{2} \frac{r^3}{R_2^3} \right) + \frac{6z (z+h)}{R_2^3} \left(1 - \frac{5}{2} \frac{r^3}{R_2^3} \right) + \frac{6z (z+h)}{R_2^3} \left(1 - \frac{5}{2} \frac{r^3}{R_2^3} \right) + \frac{6z (z+h)}{R_2^3} \left(1 - \frac{5}{2} \frac{r^3}{R_2^3} \right) + \frac{6z (z+h)}{R_2^3} \left(1 - \frac{5}{2} \frac{r^3}{R_2^3} \right) + \frac{6z (z+h)}{R_2^3} \left(1 - \frac{5}{2} \frac{r^3}{R_2^3} \right) + \frac{6z (z+h)}{R_2^3} \left(1 - \frac{5}{2} \frac{r^3}{R_2^3} \right) + \frac{6z (z+h)}{R_2^3} \left(1 - \frac{5}{2} \frac{r^3}{R_2^3} \right) + \frac{6z (z+h)}{R_2^3} \left(1 - \frac{5}{2} \frac{r^3}{R_2^3} \right) + \frac{6z (z+h)}{R_2^3} \left(1 - \frac{5}{2} \frac{r^3}{R_2^3} \right) + \frac{6z (z+h)}{R_2^3} \left(1 - \frac{5}{2} \frac{r^3}{R_2^3} \right) + \frac{6z (z+h)}{R_2^3} \left(1 - \frac{5}{2} \frac{r^3}{R_2^3} \right) + \frac{6z (z+h)}{R_2^3} \left(1 - \frac{5}{2} \frac{r^3}{R_2^3} \right) + \frac{6z (z+h)}{R_2^3} \left(1 - \frac{5}{2} \frac{r^3}{R_2^3} \right) + \frac{6z (z+h)}{R_2^3} \left(1 - \frac{5}{2} \frac{r^3}{R_2^3} \right) + \frac{6z (z+h)}{R_2^3} \left(1 $	$\left(\frac{r^2}{R_a^2}\right)$,	i
	$\sigma_{rr} = 2\mu A_{\theta} \left\{ \frac{1}{R_{1}^{3}} \left(1 - 3 \frac{r^{2}}{R_{1}^{3}} \right) + \frac{1}{R_{2}^{3}} \left(\frac{5\lambda + 3\mu}{\lambda + \mu} - 9 \frac{r^{2}}{R_{2}^{3}} \right) - \frac{6z \left(z + h \right)}{R_{2}^{3}} \left(1 - \frac{1}{R_{2}^{3}} \right) \right\}$	$\left\{\frac{5\frac{r^4}{R_1^8}}{R_1^8}\right\}$	
	$\sigma_{00} = 2\mu A_0 \left\{ \frac{1}{R_1^3} + \frac{1}{R_1^3} \left(\frac{5\lambda + 3\mu}{\lambda + \mu} - \frac{6\lambda}{\lambda + \mu} \frac{r^2}{R_2^3} \right) - \frac{6s(s+h)}{R_2^3} \right\},$		
ard 2/3	$\sigma_{rs} = -6\mu A_0 \left\{ \frac{r(s-h)}{R_1^0} + \frac{r(s+h)}{R_2^0} + \frac{2rs}{R_2^0} \left(1 - \frac{5(s+h)^2}{R_2^0} \right) \right\} +$	-	-

The author the nechanical appared to V. P. I	anks <u>M. I. Te</u> plications of Korobeynikov	mkin who offer the results; for their ori	red his additio tique of	assistand nal thank the resu	e in supervi s are extend- ilts. This p	surface, etc. sing physical- ed to D. V. An aper was press	0807
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the transfer function of the invariable part of the system $K_2(p)$ is q, and the desirable output function is $h(t)$. From these premises, the transfer function $\Phi_{opt}(\Delta, p)$ of the above system is determined in such a way that it ensures a minimum mean-square error of the output signal, has a specified excess q, and has	
by their correlation functions or spectral densities $\frac{1}{2}$ are applied to the excess of this generalized automatic-control system:	
TOPIC TAGS: automatic control, automatic control design, automatic control system, automatic control theory ABSTRACT: Two stationary random signals — desirable m(t) and noise n(t) defined	
SOURCE: Avtomatika i telemekhanika, v. 26, no. 9, 1965, 1524-1532	
TITLE: Calculation of a realizable transfer function of a closed-loop automatic- control system by means of the criterion of minimum mean-square error	
AUTHOR: Fedyanin, V. P. (Moscow) ORG: none	
 ACC NR: AP5023112 SOURCE CODE: UR/0103/65/026/009/1524/1532	
* CED: 66 FUM(A)/FDF(m)_2/FWP(w)/EWP(k)/EWP(h)/EWP(l) IJP(c) WW/BC	

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denominator o limitations o ("Extrapolati 1949). "In co	of $\Phi_{ m opt}(\Delta)$ on the transion, Interponducion, t	, jω). The prosection explation and Smoo	oblem is solved pressed in the v thing of Station s to thank Ya. 7	e real axis of n r by imposing the a well-known N.Weine nary Time Series, Z. Tsypkin for his	bove r terms Wiley,	
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PEDYANIN, V.P. (Moskva)

Calculation of a realisable transfer function of a closed-loop automatic control system using the minimum criterion of the root-mean-square error. Avtom. i telem. 26 no.9:1524-1532 S *65.

(MIRA 18:10)

USSR/Farm Animals. Sheep and Goats.

Abs Jour: Ref Zhur-Biol., No 17, 1958, 78752.

Author : Fedyanina, A.: Pashchenko, G.
Takle : The Precoce Sheep of the Moskalenskiy Sheep-

Breeding Sovkhoz.

Inst

Orig Pub: S. kh. Sibiri, 1957, No 12, 55-60.

Abstract: No abstract.

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YANUSHEVICH, A.I.; FEDYANINA, T.F.

Periodic phenomena among birds in the Chuya Valley. Trudy Inst. sool.i pares.AN Kir.SSR no.7:51-66 159. (MIRA 13:4) (Chuya Valley-Birds)

YANUSHEVICH, A.I.; YAKOVLEVA, I.D.; FEDYANINA, T.F.

Materials on seasonal phenomena in the life of birds of the Chu Valley and the Issyk-Kul' Depression. Trudy Inst. zool. AN Kazakh. SSR 15:161-169 '61. (MIRA 14:7)

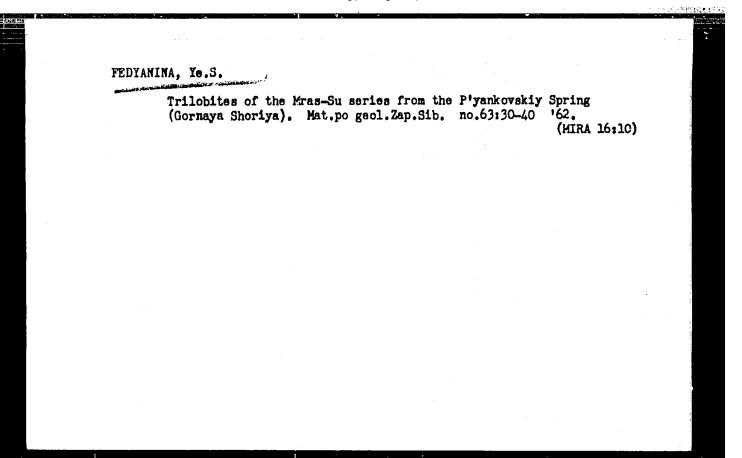
l. Institut zoologii i parazitologii AN Kirgizskoy SSR.
(Chu Valley-Birds-Habits)
(Issyk-Kul' Depression-Birds-Habits)

POSPELOV, A.G.; FEDYANINA, Yo.S.

New data on the lower Paleozoic stratigraphy of Gornaya Shoriya, Mat.po geol.Zap.Sib. no.61:86-89 '58. (MIRA 12:8) (Gornaya Shoriya-Geology, Stratigraphic)

VINKMAN, M.K.; GINTSINGER, A.B.; POSPELOV, A.G.; POLETAYEVA, O.K.;
YEGOROVA, L.I.; ROMANENKO, M.F.; FEDYANINA, Ye.S.; ASTASHKIN, V.A.;
CHERNYSHEVA, S.V.; ROMANENKO, Ye.V.; ASKARINA, N.A.; BOYARINOV, A.S.;
NADLER, Yu.S.; GOFELOV, G.F.

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SINYAKOV, V.I.; FEDYANINA, Ye.S.

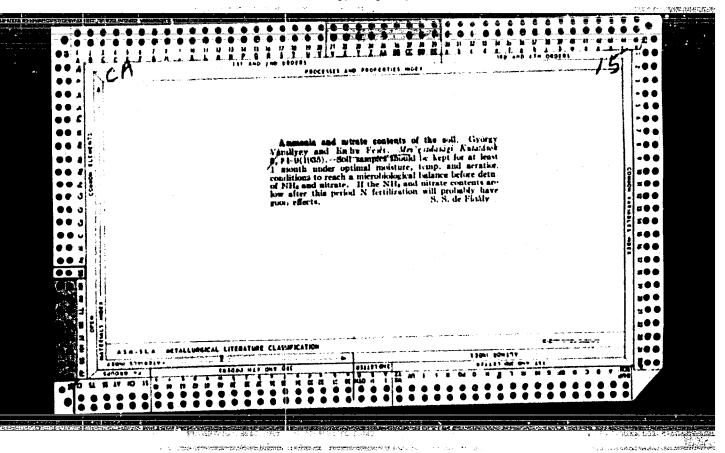
Lower Ordovician sediments in the Kaz iron-ore deposit of Gornaya Shoriya. Mat.po geol.Zap.Sib. no.63:41-55 '62. (MIRA 16:10)

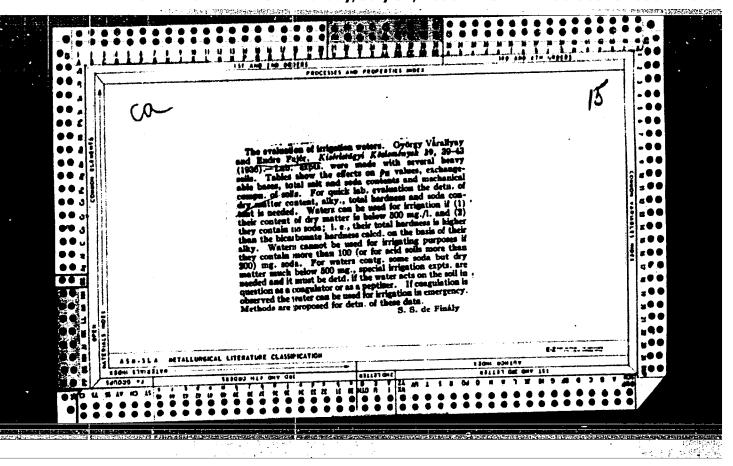
FEDYALCV, A. M.

"Loss of Stability in Medium and Low Elasticity Rods During Longitudinal Flexure." Cand Tech Sci, Odessa Polytechnic Inst, Odessa, 1955. (KL, No 13, Mar 55)

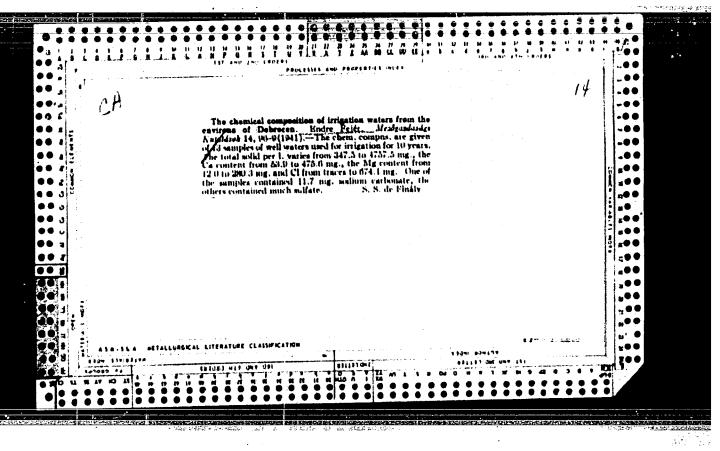
SO: Sum. No. 670, 29 Sep 55--Survey of Scientific and Technical Dissertations Defended at USSR Higher Educational Institutions (15)

"APPROVED FOR RELEASE: Monday, July 31, 2000 CIA-RDP86-00513R000412810





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FAJER, Endre, dr.

65th anniversary of Dr. Odon Rajka. Borgyogy. vener. sseale 9 no.5:
145-148 Sept. 55.

(BIOGRAPHIES,
Odon, Rajka)
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FEJER, Endre, dr.

Investigations on specificity of Trichophyton allergy; diagnostic and therapeutic use of trichophytin. Borgyogy. vener. smeale 9 no.5: 149-155 Sept. 55.

1. Koslemeny as Istvan-korhas Gyermek-borosstalyarol (foorvos: Fejer Endre dr., as orvostudomanyok kandidatusa)
(RINGURM,
diag. & ther. with trichophytin)

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Pathology and therapy of leukonychia mycotica. Borgyogy. vener.

szemle 9 no.5:167-171 Sept. 55.

1. Koslemeny ax istvan-korhas Gyermek-borosztalyarol (foorvos:
Fejer Endre dr., az orvostudomanyok kandidatusa)
(MAILS, diseases,
leukonychia mycotica, pathol. å ther.)
(FUNOUS DISEASES,
leukonychia mycotica, pathol, å ther.)
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FEJHR-KOSSEY, Olga

Studies of the alkaloid content in certain species and hybrids of Nicotiana. I. Separation and identification of tobacco alkaloids by thin-layer chromatography. Acta biol. Acad. sci. htmg. 15 no.2:251-256 164

1. Institute of Cenetics of the Hungarian Academy of Sciences, Budapest (Head: B. Cyorffy).

FEJES, Gabor

Storing granulated sugar in silos. Cukor 17 no.3:65-74 Mr 164.

1. Technical University of Heavy Industry, Miskolc.

FEJER, Ildika

Field test of quadriple lenses with circular roll poles. ATOMKI kozl 4 no.3/4:177-182 D 162.

l. Kossuth Lajos Tudomanyegyetem Kiserleti Fizikai Intezete, Debrezen.

FEJER, Istyan, szakeloado

Remark about the questions of reutilization of opencasts and waste rock piles. Erdo 12 no.8:382-383 Ag 163.

1. Szentendrei Erdeszet.

FEJER I.

A myski pereservek sital ekozott fajdelink vegetativ uton valo befolyasolass; elezates koslomeny. Autonometropic enalgesia in cervical disk herning (hv. hetil., hudap, 92:27 8 July 51 p. 877-9.

l. Internal Dipartment (Head Physician-Dr. fore Fajar),
Bekeenaaba County Constal Hospital (Director - Head PhysicianDr. James (edicaty),
CLML Vol. 20, No. 10 Cet 1951

FEJER, Imra, dr.; FUZI, Miklos, dr.; AMFOLDY, Zoltan, dr.; KISZEL,
Janos, dr.

Leptospirosis epidemic in Ujkigyos (Komit. Bekes) in the summer of

1. A Bekescsabai Varosi Korhas (igasgato: Budicsky Janos dr.)
Belgyogyassati Osstalyanak (foorvos: Fejer Imre dr.) es a Budapesti
Orvostudomanyi Egyetem Mikrobiologiai Intesetenek (igazgato: Alfoldy Woltan dr.) koslemenye

(IMPTOSPIROSIS, epidemiology Hungary, 1952 in summer)

1952. Orv. hetil. 95 no.24:665-669 13 June 54.

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FEJER, Inre, dr.; SOHKOLY, Kalman, dr.

Perforation of bronchial gumma into the esophagus. Orv. hetil. 95
no.52:1439-1440 26 Dec 54.

1. A Bekescsabai Varoni Korhas (igazgato: Gombos Inre dr.)
belgyogyassati osstalyanak (foorvos: Fejer, Inre dr.) es
Laboratoriumanak (foorvos: Sonkoly Kalman, dr.) koslemenye.

(ESOPHAGUS, perf.
by bronchial gumma)

(RRONCHI, dis.
gumma, perf. into esophagus)

(SIPHILIS, manifest.
bronchial gumma, perf. into esophagus)
```

SZEGO, V.dr.; KASZA, L., dr.; SZABO, G., chim; FEJER, I., dr.

The blood transaminase alkaline phosphatase ratio in the differential diagnosis of hepatocellular and michanical jaundice. Med. interm. 16 no.2:163-168 F*64.

1. Lucrare efectuata in Clinica de boli infectioase, I.M.F., Tg. Mures (director: prof.L.Kelemen).

rejea, I.

Possibilities of utilizing geophysical measurement in coal-mining geological research. p. 528, (BANYASZATI LAPCK, Budapest, Hungary), Vol. 9, No. 10, Oct. 1954.

SO: Monthly List of East European Accessions, (EEAL), IC, Vol. L, No. 5, May 1955. Uncl.

1-6 VER LNDISINO

SURNAME, Given Names

Country: Rumania

Academic Degrees:

Affiliation: Department of Surgical Anatomy-Medicine (Catedra de Anatomie-Medicina Operatorie), Tg. Mures; Department Head: Tiberiu MAROS,

-Conf.-, and Department of Analytical Chemistry (Catedra de Chimie-Analitica), Tg. Mures; Department Head: Paul 5005, -Conf.of the Medico-Phermacoutical Institute (Institutul Medico-Paren-

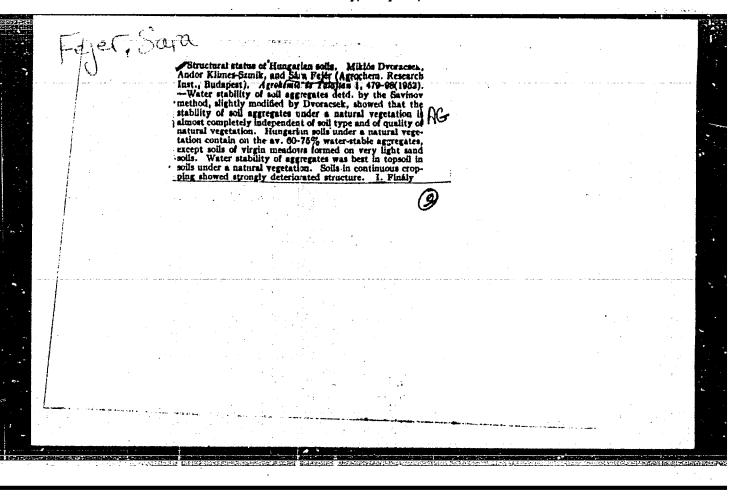
ceutic), Tg. Muros.

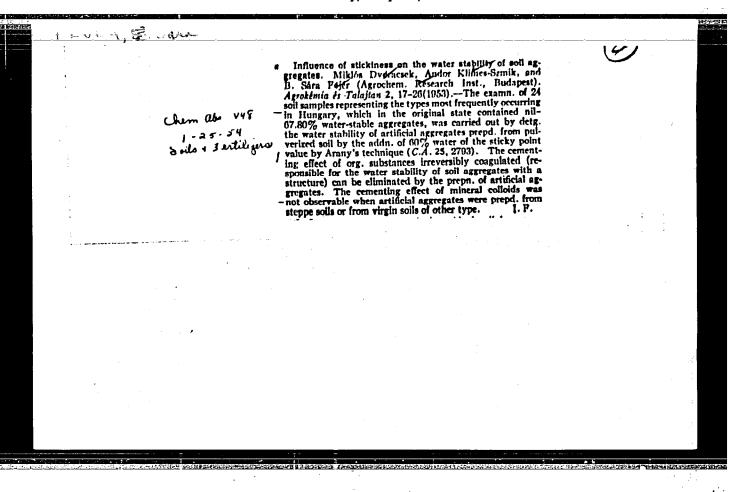
Sourco: Eucharest, Igiena, Vol IX, No 4, Sep-Oct 1961, pp 333-337.

Data: "A Stimulating Factor of Hopatitic Regeneration in a Coal Mine."

Authors:

MAROS, Tiberiu, -Conf.-(lecturer) CSIKY, Nicolae, -Dr.-FEFER, Ladislau, -Dr.-KOVACS, Virginia V., -Dr.-BLAZSEK, Agneta, -Chomist.-KATONAI, Bela, -Dr.-





FEJER, T.

FEJER, T. - Background projection, projected scenery. p.129. Vol. 2, no. 5, Oct. 1956.
KEP ES HANGTECHNIKA. Budapest, Hungary

SOURCE: East European Accessions List (EEAL) Vol. 6, No. 4--April 1957

FEJEREGYHAZI, Sandor, dr.

Brick-system devices and their standardization. Szabvany kozl 14 no.5:111-114 My 162.

FEJERNE KOSSEY, Olga

Investigation of the sulfur metabolism of corn(maize) roots. Agrokem talajtan 10 no.3:363-376 S '61.

1. Institute of Plant Physiology, Ectvos Lorand University, Budapest.

FEJERNE-KOSSEY, Olga

Change of amylase activity in the roots of germ plants. Biol kozl 10 no.1:43.50 '62.

1. Ectvos Lorand Tudomanyegyetem Novenyelettani Intezet, Budapest. Igazgato: Dr. Vilmos Frenyo egyetemi tanar.

FEJER DOMOKOSNE KOSSAY, Olga; BACHKAUSZ, Richard

Serologic examination of root proteins. Botan kozl 50 no.2:60-66 Jl '63.

1. Magyar Tudomanyos Akademia Genetikai Intezete, Budapest, II., Herman Otto ut 15 (for Fejer Domokosne). 2. Human Oltoanyagtermelo es Kutatointezet, Budapest, X., Szallas u.5/7 (for Backhausz).

FEJER, D.; PETRASOVICH, I.

The respiration of rice seedlings. Pt. 2. Acta bot Hung 9 no. 3/4 299-306 163.

1. Institute of Plant Physiology, Lorand Ectvos University, Budapest.

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ISZAGULJANC, V.N. [Isagulyants, V.I.]; TISKOVA, V.N. [Tishkova, V.N.] GRUSEVENKO, I.A. [Grushevenko, I.A.]; FEJER, Domonkosne [Translator]

Preparing polyglycolether-type synthetic lubricants. Kem tud kozl MTA 20 no.1:33-39 '63.

- 1. Leningradi Tudomanyegyetem (for Tishkova, Grushevenko).
- 2. Ormeny Tanacskoztarsasag Tudomanyos Akademiajanak rendes tagja (for Iszaguljanc.).

FEJER, Domokos

Plant biochemistry in Hungary. Botan kozl 50 no.2:51-60 Jl '63.

1. Ectwos Lorand Tudomanyegyetem Novenyelettani Intezete, Budapest, VIII., Muzeum korut 4/a.

FEJEREGYHAZI, Sandor, dr.; KUBL, Emil

Hexagon socket-head and cross-recessed screws. Szabvany kozl 13 no.8: 178-179 Ag '61.

NAGY, E. FEJES, D.

Aureomycin treated gangrenous herpes soster. Borgyogy. vener. ssemle 6 no. 5:151-152 Oct 1952. (CIML 24:1)

1. Doctors. 2. Dermatological and Venereological Clinic (Director --- Prof. Dr. Lajos Szodoray), Debrecen University.

SZODORAY, Lajos, dr.: FEJES, Dezso, dr.

Two cases of Malherbe's calcified epithelioma. Borgyogy. vener. szemle 10 no.4:189-190 July 56.

1. A Debreceni Orvostud. Egyetem Bor- es Nemikortani Klinikaja (Igaz. Szodoray, Lajos, dr. egyet, tanar) kozl. (CYSTS, pathol. Malherbe's calcified epithelioma (Hun))

and the second section of the second second

FEJES DEZSO

Largactil in the therapy of lichen ruber. Borgyogy. vener. szemle 11 no.4:154-156 Aug 57.

1. A debreceni Orvostudomanyegyetem Bor- es Nemikortani klinikaja (igazgato: Dr. Szodoray Lajos egyet. tanar) es a Hajdu-megyei II. Bor- es Nemibeteggondozo Intezet (vezeto: Dr. Fejes Dezso szakfoorvos) kozlemenye.

(PITYRIASIS RUBRA PIIARIS, ther.
chlorpromasine (Hun))
(CHLORPROMAZINE, ther. use
pityriasis rubra pilaris (Hun))

FEJES, Dezso, dr.; BALOGH, Eva, dr.

Penicillin sensitivity in cases of mycosis of the legs. Borgyogy. vener. szemle 11 no.2-3:79-80 Apr-June 57.

 A debreceni Orvostudomanyegyetemi Bor → es Nemikortani Klinikajanak (Igasgato: Szodoray Lajos dr. egyetemi tanar, az orvostudomanyok doktora) koslemenye.

(SKIN DISEASES, ther.

fungus dis. of legs, prether. penicillin sensitivity tests (Hun))

(FUNGUS DISEASES, ther.

legs, prether. penicillin sensitivity tests (Hun))

(PENICILLIN, ther. use

fungus dis. of legs, prether. sensitivity tests (Hun))

FEJES, F.

Creasing cotton on scutchers, p. 248, MAGYAR TEXTILTECHNIKA (Textilipari Muszaki es Tudomanyos Egyesulet) Budapest, No. 7, July 1956.

SOURCE: EEAL LC Vol. 5, No. 11, November 1956

SECULIARIA ELECTRICA ELECTRICA DE CONTROL DE

FEJES, F.; SELTI, P.

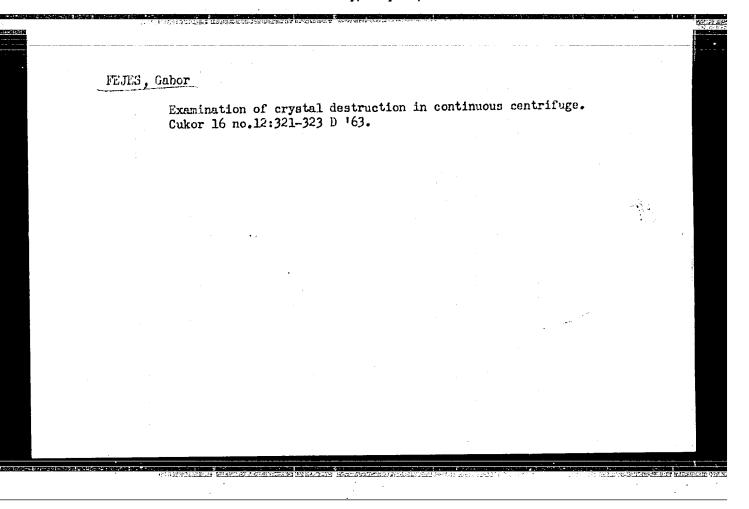
Use of the caulking funnel of Leningrad on a carding machine. p. 376. (Magyar Textiltechnika, No. 10, October 1956. Budapest, Hungary)

SO: Monthly List of East European Accessions (EEAL) LC, Vol. 6, no. 9, Sept. 1957. Uncl.

FEJES, Gabor

Centrifuges of continuous operation. Cukor 14 no.6:160-164 Je '61.

1. Elelmiszeripari Tudomanyos Intezet.



FEIES 1. A koraszulottek jelentosege a videki csecsemohalalozasban Significance of premature babies in the infant mortality in rural districts Nepegeszsegugy, Budapest 1950, 31/1 (23-27) Graphs 3

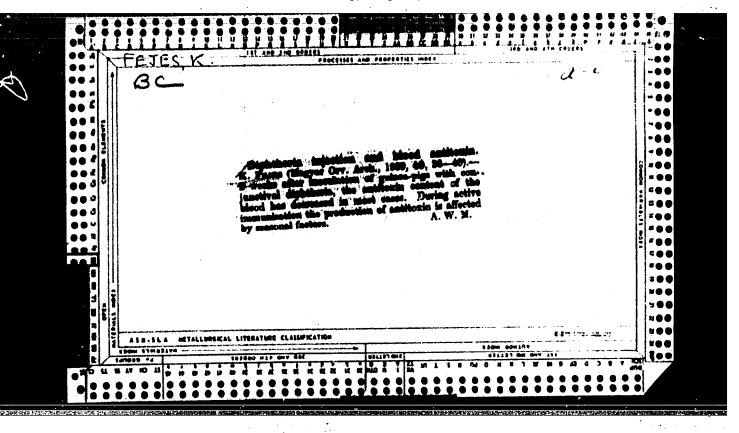
SO: Medical Microbiology & Hygiene Section IV, Vol. 3, No. 7-12

EAKTAI, Maria; FEJES, Istvan; HORVATH, Andras

Examination of the annual rings of the Pinuxylon Tarnociencis

(Tusson) Greguss. Foldt kozl 94 no.3:393-396 J1-S '64.

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FURSTNER, Jozsef, Dr.; FEJES, Karoly, Dr.; KRALOVANSZKY, Zoltan, Dr.

Clinical experiences with facial paralysis. Orv. hetil. 99 no.48: 1682-1684 30 Nov 58.

1. A Fovarosi Peterfy Sandor utcai Korhaz-rendelo (igazgato-foorvos: Galocsi Gyorgy dr.) Ful-orr-gege Osztalyanak (foorvos: Fleischmann Iaszlo dr. az orvostudomanyok doktora) kozlemenye.

(FACIAL PARALYSIS clin. aspects (Hun))

FEJES L. A kiuritese fertoz o betegsegekben The elimination of the germs in infections diseases Orvosok Lapja, Budapest 1947, 3/44 (1825-1830)

SO: Medical Microbiology and Hygiene, Section IV, Vol. I, #1-6

FEJES, Laszlo, okleveles gepeszmernok

Remark about the article by Bendeguz Szabo. Ipari energia 4 no.3:71-72 Mr 163.

1. Orszagos Vizugyi Foigazgatosag.

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S/044/62/000/007/043/100 C111/C222

AUTHORS:

Schay, G., Pethö, A., Fejes, P.

TITLE:

Further remarks on the solution of the system of differential equations of a gaschromatographic model

PERIODICAL:

Referativnyy zhurnal, Matematika, no. 7, 1962, 70, abstract 7B337. ("Acta chim. Acad. scient. hung.", 1960, 22, no. 3, 285-299)

TEXT: The processes in a variable gaschromatographic profile can be described by the continuity equations

$$\frac{\partial x}{\partial \tau} + \frac{\partial cx}{\partial z} + \frac{\partial a}{\partial \tau} - D \frac{\partial^3 x}{\partial z^3} = 0,$$

$$\frac{\partial (1-x)}{\partial \tau} + \frac{\partial c(1-x)}{\partial z} - D \frac{\partial^3 (1-x)}{\partial z^3} = 0.$$

where z -- local coordinate, \tilde{c} -- time, $x(z,\tau)$ and $a(z,\tau)$ -- concentrations in the movable and in the immovable phase, $c(z,\tau)$ -- vector 1/2

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CIA-RDP86-00513R0004128100

Further remarks on the solution ...

S/044/62/000/007/043/100 C111/C222

locity, D -- diffusion coefficient. In the first part of the paper the authors consider instationary solutions under absent diffusion and under linear kinetics, i.e. it is put D = 0,

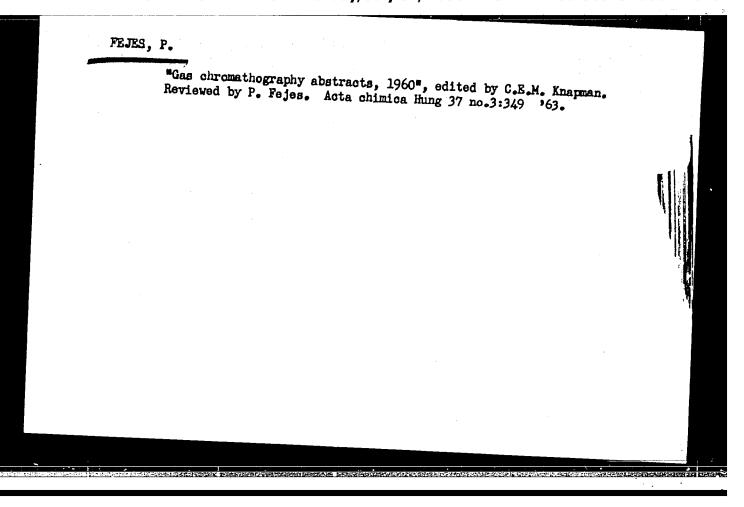
$$\frac{\widehat{\rho} \cdot \mathbf{a}}{\widehat{\sigma} \cdot \widehat{\mathbf{c}}} = \mathbf{k}(\mathbf{q}\mathbf{x} - \mathbf{a}) \quad ,$$

where k -- constant velocity of the descrption from the immovable phase, q the constant ratio of the sorption components in the state of equilibrium of the two phases. It is shown that explicit solutions exist only for $x(\mathcal{I}) = 1$, where $x(\mathcal{I}) = x(0, \mathcal{I})$. If the boundary and initial conditions are arbitrary, then one can obtain an explicit form of the solutions in the domain before the "peak" and in the "peak". In the second part stationary solutions are considered; a criterion for the realizability of the sorption or desorption front is obtained.

Abstractor 8 Mate : Complete translation.

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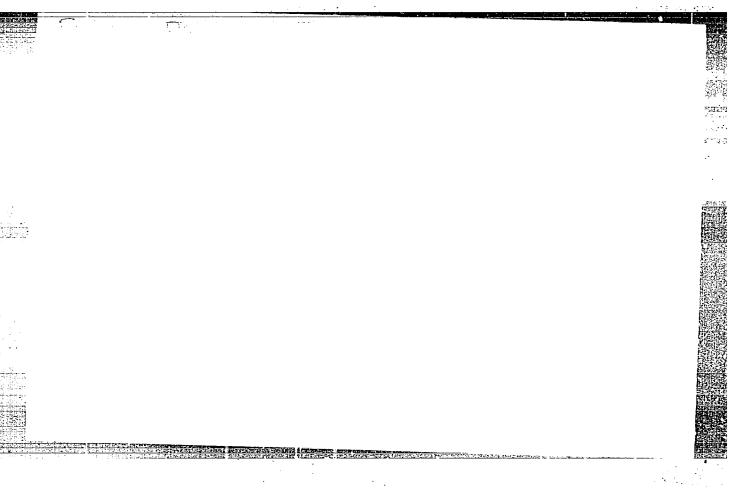
"APPROVED FOR RELEASE: Monday, July 31, 2000 CIA-RDP86-00513R000412810

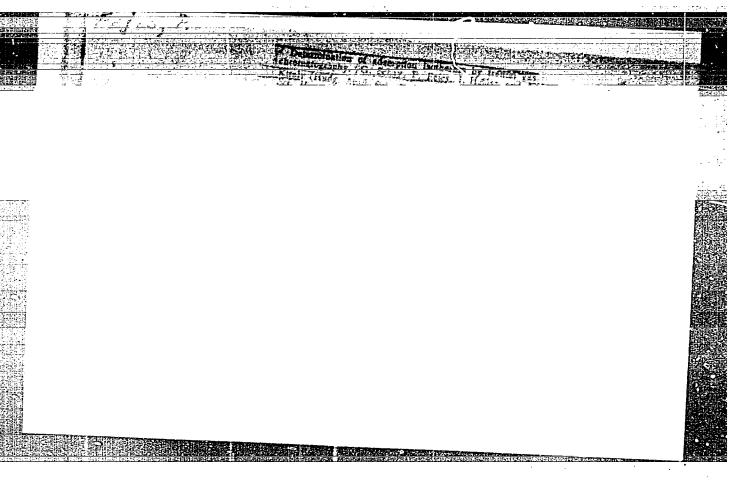
fejes, p.

Fejes, P.; Gardos, Gy.; Kallos, D.

"Synthesis and Examination of Additional Materials to Reduce the Freezing Point."
p. 346 (Magyer Kemikusol Lapja. Vol. 8, no. 12, Dec. 1953 Budapest)

SO: Monthly List of East European Accessions. Vol 3 No 6 Library of Congress, Jun 54, Uncl.





HUNGARY/Atomic and Molocular Physics - Gases

D-7

Abs Jour : Rof Zhur - Fizika, No 9, 1958, No 20223

Author

: Schay G., Fojes P. Szathmary J.

Inst Title Hungarian Academy of Sciences, Budapost, Hungary - you Chemistry

: Studies on the Adsorption of Gas Mixtures. I. Statistical Theory of Fhysical Adsorption of the Languair-Type in Hulti-

component Systems.

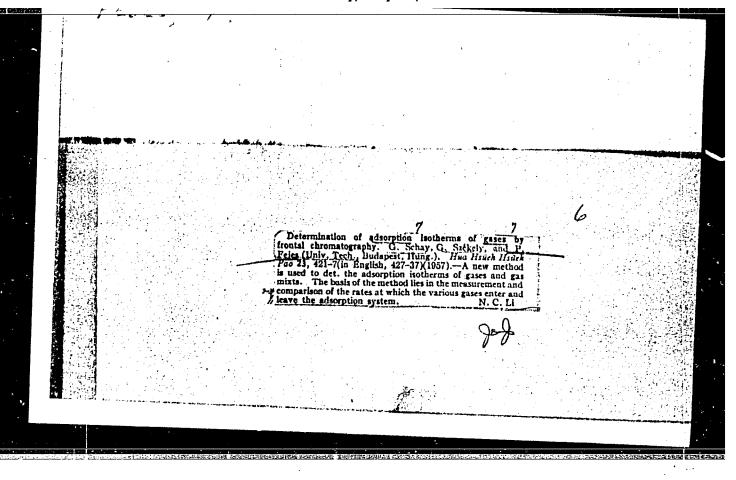
Orig Pub : Acta chim. Acad. sci. hung., 1957, 12, No 3-4, 299-307

Abstract : The edsorption theory of Schry (Schay O., Acta chem. Hung., ,953, 3, 511), based on representation of a monomolecular layor of adsorbed substence in the form of a two-dimensional gas, is goneralized to include the case of a multi-component gas mixture. The Langmuir formula for adsorption is not suitable at large surface densities of the adsorbed gases. The difference in the asymptotic values of the number of edsorbed molecules of each component is obtained automatically from the fect that a count is taken of the effective dimension of the molecule, which is different for different gases. The ceso of two-component mixture is enclyzed in detail.

Card : 1/1

energy statement

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HUNGARY/Physical Chemistry - Surface Phenomena, Adsorption, Chromatography, Ion Interchange.

B-13

Abs Jour: Referat. Zhurnal Khimiya, No 2, 1958, 4005.

Author : Geza Schay, Pal Fejes, Istvan Halasz, Janos Kiraly.

Inst Title

: Determination of Adsorption Isotherms by Gas Chromatographic

Method.

1 101

Orig Pub: Magyar kem. folyoirat, 1957, 63, No 4-5, 143-149.

Abstract: The isotherms of CO₂ adsorption on activated carbon at 20 to 60° were taken down by the earlier described (RZh-Khim, 1955, 51625) dynamic gas-chromatographic method. The comparison of the isotherms obtained by this method with data obtained by the volumetric method shows that the results are practically identic, if physical adsorption was in question and chromatography was carried out at a low speed. Thus, the possibility of determining equi-

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н**ирия (Зум) формецель**: Монтуруну 31, 2000 рт оставления 6-00513R00041281 graphy, Ion Interchange.

Abs Jour: Referat. Zhurnal Khimiya, No 2, 1958, 4005.

librium relations at adsorption under the conditions of dynamic arrangement of the experiment is shown.

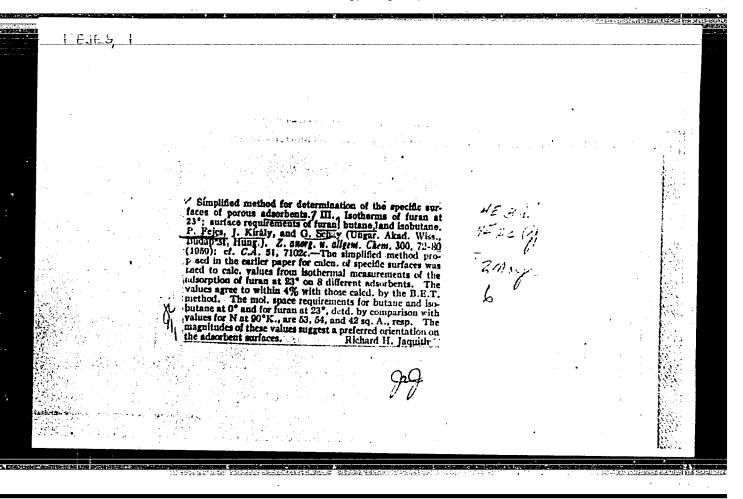
: 2/2 Card

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FEJES, P.; KALLO, D.; ENGELHARDT, J.

Preparation of hydrocarbons with small carbon stomic number for adsorption. p.132 MAGYAR KEMIAI FOLYOIRAT. Budapest, Hungary. Vol. 65, no. 4, Apr. 1959

Monthly List of East European Accessions (EEAI), LC. Vol. 8, No. 9, September 1959 Uncl.



FEJES, Pal; KALLO, Denes; ENGELHARDT, Jozsef

Preparation of hydrocarbons with low atomic number for adsorption. Magy kem folyoir 65 no.4:132-138 Ap 154.

1. Magyar Tudomanyos Akademia Kozponti Kemiai Kutato Intezete, Budapest.

FEJES, Pal, a kemiai tudomanyok kandidatusa; SCHAY, Geza, akademikus

Pore diffusion and catalytic activity. Kem tud kozl MTA 13 no.2:
179-199 *60. (EEAI 9:8)

(Diffusion) (Catalysts)

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A new method of evaluation for determining the apparent velocity constant in the second by a medium of flow. Vestpress verylp ser kozl. 4 no.44309-310 160 Tedomanyos Akademia Kozponti Kemiai Kutato Intezete, Budapest.

FEJES, Pal, a kemiai tudomanyok kandidatusa (Budapest)

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Kem tud kozl MTA 14 no.4:445-456 '60. (ERAI 10:3)

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Budapest.

(China--Chemical industries) (Hungarians in China)

KIRALY, Janos (Budapest, XIV., Hungaria korut 114); FEJES, Pal (Budapest, XIV., Hungaria korut 114); TUDOS, Ferenc (Budapest, XIV., Hungaria korut 114); AZORI, Maria (Budapest, XIV., Hungaria korut 114)

Adsorption of oxygen on free radicals of 1,1-diphenyl-2-picryl hydrazyl. Acta chimica Hung 29 no.4:409-418 '61.

1. Central Research Institute for Chemistry, Hungarian Academy of Sciences, Budapest. 2. Editorial board member, "Acta Chimica Academiae Scientiarum Hungaricae" (for Tudos).

FEJES, Pal (Budapest XIV., Hungaria korut 114)

"Gas Chromatography Abstracts", 1959. Reviewed by P. Fejes. Acta chimica Hung 29 no.4:479 161.

1. Central Research Institute for Chemistry, Hungarian Academy of Sciences.

FEJES, Pal, dr. (Budapest, II., Pusztaszeri ut 59/67); FROMM-CZARAN, E. (Mrs) (Budapest, II., Pusztaszeri ut 59/67); ECHAY, Geza, prof., dr. (Budapest, II., Pusztaszeri ut 59/67)

Newer investigations in frontal gas chromatography considering the variations of flow rate during the sorption. I. Acta chimica Hung 33 no.1:87-105 '62.

1. Zentralforschungsinstitut für Chemie der Ungsrischen Akademie der Wissenschaften.

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Role of the pore diffusion inhibition in first-order triangular reactions reversible in all directions. Pt. 1. Magy kem folyoir 70 no. 1: 7-16 Ja '64.

- 1. Magyar Tudomanyos Akademia Kozponti Kemiai Kutato Intezete, Budapest.

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AUTHOR: Beyer, Hermann-Beyer, Kh. (Doctor; Budapest); Fejes, Pal-Feyesh, P. (Doctor); Schay, Geza-Shay, G. (Professor; Doctor); Varga, Karoly

ORG: Central Research Institute for Chemistry, MTA, Budapest

TITLE: New investigations in the field of frontal gas chromatography taking into account the flow rate during sorption. Part 3: Determination of theoretical plate height values with the aid of frontal gas chromatography [This paper was presented at the All-Union Conference on Gas Chromatography in Moscow in May 1964.]

SOURCE: Academia scientiarum hungaricae. Acta chemica, v. 47, no. 1, 1966, 13-22

TCPIC TAGS: gas chromatography, sorption

ABSTRACT: An expression was derived for the characterization of the height of the theoretical plate for the frontal variant in gas chromatography and the values obtained with the aid of this expression were compared with data obtained by means of elution chromatography. Orig. art. has: 3 figures and 11 formulas. [Orig. art. in German] [JPRS: 34,669]

SUB CODE: 07 / SUBM DATE: OlMar65 / ORIG REF: 003 / OTH REF: 004

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ACC NR: AT6033590

SOURCE CODE: HU/2502/66/047/001/0023/0035

AUTHOR: <u>Varga</u>, <u>Karoly</u> (Budapest); <u>Fejes</u>, <u>Pal--Feyesh</u>, <u>P</u>. (Doctor; Budapest); <u>Beyer</u>, <u>Hermann</u>--Beyer, Kh. (Doctor; Budapest)

24

ORG: Central Research Institute for Chemistry, MTA, Budapest

TITIE: New investigations in the field of frontal gas chromatography taking into account the flow rate during sorption. Part 4: Evaluation of chromatographic partition columns on the basis of transport rates determined by frontal chromatography and diffusion constants

SOURCE: Academia scientiarum hungaricae. Acta chemica, v. 47, no. 1, 1966, 23-35

TOPIC TAGS: gas chromatography, sorption

ABSTRACT: Methods for the determination of the transport rate and diffusion constants of gas-chromatographic partition columns were described and means for evaluating such columns as to their performance characteristics other than selectivity on the basis of these data were developed. The data obtained on various packed columns were presented and discussed in detail. Orig. art. has: 1 figure, 7 formulas and 1 table. [Orig. art. in German] [JPRS: 34,669]

SUB CODE: 07 / SUBM DATE: OLMar65 / ORIG REF: 009 / OTH REF: 001

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